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**Segura**

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(54) **ACTUATION LOCKOUT FOR A  
FASTENER-DRIVING TOOL**

(71) Applicant: **Illinois Tool Works Inc.**, Glenview, IL  
(US)

(72) Inventor: **Ricardo Segura**, Lake in the Hills, IL  
(US)

(73) Assignee: **Illinois Tool Works Inc.**, Glenview, IL  
(US)

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CPC ..... **B25C 1/008** (2013.01)

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CPC ..... B25C 1/043; B25C 1/046  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,543,987 A \* 12/1970 Obergfell ..... B25C 1/003  
227/136  
3,638,532 A 2/1972 Novak  
4,784,308 A \* 11/1988 Novak ..... B25C 1/003  
227/120

5,167,359 A \* 12/1992 Frommelt ..... B25C 1/188  
227/8  
5,240,161 A \* 8/1993 Kaneko ..... B25C 1/003  
227/109  
5,626,274 A \* 5/1997 Shkolnikov ..... B25C 1/005  
227/109  
5,683,024 A 11/1997 Eminger et al.  
5,829,661 A \* 11/1998 Hirtl ..... B25C 1/184  
227/10  
6,170,730 B1 \* 1/2001 Lin ..... B25C 1/003  
227/119

(Continued)

**FOREIGN PATENT DOCUMENTS**

EP 1 693 160 A1 8/2006  
EP 1 862 262 B1 12/2009

*Primary Examiner* — Hemant M Desai

*Assistant Examiner* — Tanzim Imam

(74) *Attorney, Agent, or Firm* — Neal, Gerber &  
Eisenberg LLP

(57) **ABSTRACT**

A fastener-driving tool including a housing, a power source including a reciprocating driver blade, a tool nose configured for receiving the driver blade for driving fasteners fed into the nose and a magazine configured to house a collation including a plurality of the fasteners. A workpiece contact element is movably connected to the nose and moves between a rest position and an actuated position when the workpiece contact element is pressed against a workpiece, the workpiece contact element moves to the actuated position. A lockout mechanism is operatively associated with the workpiece contact element and the magazine, and is in contact with the collation in a first position when fasteners are in the magazine and moves to a second position when a last fastener in the collation has been driven by the driver blade to block the workpiece contact element and prevent further actuation of the tool.

**17 Claims, 15 Drawing Sheets**

